

2014 / 2014A Aluminium

Smiths High Performance



Revision: SHP/english/datasheets/2014-2014a/11.02.2025

Page: 1 of 2

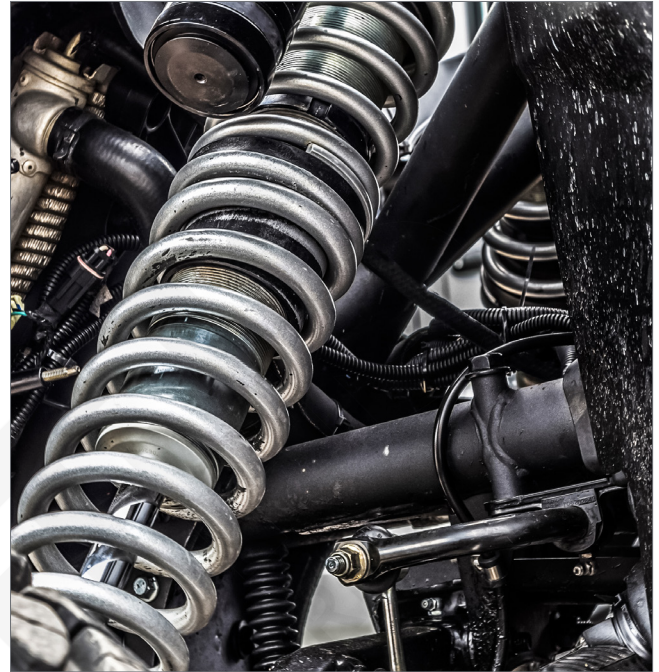
Excellent Mechanical Properties

We stock 2014 / 2014A aluminium in various forms to support markets such as motorsport and aerospace.

2014 & 2014A offer virtually identical chemistry - 2014A has slightly less iron and silicon content. Both products are used in applications which require high mechanical strength and fatigue resistance.

The alloy offers a high strength level, reasonably good elevated temperature resistance & fatigue performance for a broad spectrum of applications. The product also provides excellent machinability and decent hardness, and although corrosion resistance is average, the material is often hard anodised as a protective measure. 2014 aluminium is easily plated.

2014 aluminium represents the second most popular 2xxx series aluminium alloy available. Our products are available in numerous tempers and forms which are available to our customers, ex-stock.



Applications:

The alloy is highly suitable for applications requiring high strength and fatigue resistance.

Typical applications include:

- Motorsport uprights
- Hydraulics
- Fasteners
- High technology applications
- Aircraft Fuselage
- Airframes

Benefits:

- High strength
- High fatigue strength
- Excellent machinability
- Heat-treatable
- Easily plated



About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high-performance engineering materials. We are material supply chain partners supporting high-technology market sectors.

Processing:

We use state-of-the-art processing equipment to cut your material to your specific size requirements. We undertake processing in-house and often process and dispatch material on the same day.

We also stock material in metric and imperial sizes.

Further technical data available on the reverse of this Datasheet

2014 / 2014A Aluminium

Smiths High Performance



Revision: SHP/english/datasheets/2014-2014a/11.02.2025

Page: 2 of 2

* Chemical Composition (weight, %)

	Si	Fe	Cu	Zn	Mn	Mg	Ti	Cr	Other	Al
Min:	0.50		3.90		0.40	0.20				Bal
Max:	0.90	0.50	5.00	0.25	1.20	0.80	0.15	0.10	0.15	Bal

* Properties as per BS EN 573-3

* Mechanical Properties

Elongation	7% min
Tensile Strength	460 MPa (min)
Proof Stress	420 MPa (min)

* Properties as per BS EN 755-2, T6/T6510/T6511 (25-75mm diameter)

Physical Properties

Density	2.82 Kg/m ³
Melting Point	535°C
Thermal Conductivity	138 W/m.K
Thermal Expansion Coefficient	23 x 10 ⁻⁶ /K
Modulus of Elasticity	71 GPa

...where performance matters...

When you purchase high-performance materials from **Smiths High Performance**, you will join some of the biggest and best global engineering companies. We are a Tier 1 supply chain partner to the world's leading motorsport companies. Our unique business structure and ethos allow us to offer services otherwise unavailable in this market sector.

www.smithshp.cominfo@smithshp.com

Unit 3, Juno Place
Stratton Business Park
Biggleswade SG18 8XP

Tel: +44 (0)1767 604 708



All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.